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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6	jonathan near maron.in.	US-PGPUB; USPAT	OR	ON	2007/01/08 07:45
S2	1422	oracle.as.	US-PGPUB; USPAT	OR	ON	2007/01/08 07:45
S3	1	S2 and (markup and event and class).clm.	US-PGPUB; USPAT	OR	ON	2007/01/08 07:46
S4	8	S2 and (event and class).clm.	US-PGPUB; USPAT	OR	ON	2007/01/08 08:02
S6	1494	717/106-109.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:03
S7	1	S6 and (sax and xml and (event adj handler))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:04
S8	10	S6 and (sax and xml)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:07
S9	10	S6 and sax	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:07
S10	4600	sax	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:08
S11	4600	(sax or "simple api for xml" or "simple application programmming interface for extensible markup language")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:23

S12	484	S11 and (xml or "extensible markup language")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:11
S13	40	S12 and (event adj handler)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:11
S14	14	megginson.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:15
S15	6	("6125391" | "6205407" | "6434529" | "6569207" | "6675354" | "6704736").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/08 08:20
S17	2618	ejb or "enterprise javabean" or "eneterprise java bean"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:23
S18	45	S17 and (sax or "simple api for xml" or "simple application programmming interface for extensible markup language")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 08:23
S19	1112	S17 and reflect$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 12:32
S20	22	S18 and reflect$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 11:26
S21	4	("20030033369" | "20030158918" | "20030182651" | "4638298").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/08 11:28

S22	731	S19 and class and method and parameter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 12:32
S23	561	S22 and (xml or "extensible markup language")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 12:36
S24	91	("20050132339" "20030225774" "6268852" "6337696" "20030018961" "6188401" "20040243927" "20040247292" "20040250200" "6433775" "6025836" "20040223009" "20030115548" "20060248540" "6094221" "20010037490" "20020099902" "20030237049" "20040172627" "20060043165" "5699310" "6061665" "6061665" "6412021" "7000218" "20040168124" "20050223282" "20050223283" "6226665" "6226665" "5774729" "6185728" "5710926" "6684385" "6701513" "20060161906" "6272542" "20050060687" "20040172613" "20040172614" "20050231397" "5943496" "20050203960" "6253193" "6363488" "6389402" "6427140" "6173316" "6317781" "6470381").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 10:16
S25	2	"6643652".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 14:35

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1 XML: XML screamer: an integrated approach to high performance XML parsing, validation and deserialization

Margaret G. Kostoulas, Morris Matsa, Noah Mendelsohn, Eric Perkins, Abraham Heifets, Martha Mercaldi

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: 🗎 pdf(303.88 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes an experimental system in which customized high performance XML parsers are prepared using parser generation and compilation techniques. Parsing is integrated with Schema-based validation and deserialization, and the resulting validating processors are shown to be as fast as or in many cases significantly faster than traditional nonvalidating parsers. High performance is achieved by integration across layers of software that are traditionally separate, by avoiding unnecessar ...

Keywords: JAX-RPC, SAX, XML, XML schema, parsing, performance, schema compilation, validation

2 Research session: XML query processing #3: Efficient evaluation of XQuery over streaming data

Xiaogang Li, Gagan Agrawal

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**
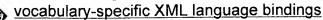
Publisher: VLDB Endowment

Full text available: 🗎 pdf(302.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

With the growing popularity of XML and emergence of streaming data model, processing queries over streaming XML has become an important topic. This paper presents a new framework and a set of techniques for processing XQuery over streaming data. As compared to the existing work on supporting XPath/XQuery over data streams, we make the following three contributions:1. We propose a series of optimizations which transform XQuery queries so that they can be correctly executed with a single pass on t ...

3 Software design, languages and systems: Reducing application code complexity with vocabulary-specific XML language bindings

Jules White, Boris Kolpackov, Balachandran Natarajan, Douglas C. Schmidt

March 2005 **Proceedings of the 43rd annual southeast regional conference - Volume 2 ACM-SE 43**

Publisher: ACM Press

Full text available: 📄 pdf(498.52 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The eXtensible Markup Language (XML) has become a ubiquitous data exchange and storage format. A variety of tools are available for incorporating XML-based data into applications. The most common XML tools (such as parsers for SAX and DOM) provide low-level vocabulary-independent interfaces, which can make it hard to develop and debug robust applications. This paper examines tools for generating vocabulary-specific XML-to-C++ language mappings and shows how they can reduce key sources of complex ...

Keywords: C++, DOM, SAX, W3C XML schema, XML, vocabulary-specific language binding

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4 <u>When and how to develop domain-specific languages</u>

Marjan Mernik, Jan Heering, Anthony M. Sloane
December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(318.02 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Domain-specific languages (DSLs) are languages tailored to a specific application domain. They offer substantial gains in expressiveness and ease of use compared with general-purpose programming languages in their domain of application. DSL development is hard, requiring both domain knowledge and language development expertise. Few people have both. Not surprisingly, the decision to develop a DSL is often postponed indefinitely, if considered at all, and most DSLs never get beyond the applicatio ...

Keywords: Domain-specific language, application language, domain analysis, language development system

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5 <u>XML parsing and stylesheets: An adaptive, fast, and safe XML parser based on byte sequences memorization</u>

Toshiro Takase, Hisashi MIYASHITA, Toyotaro Suzumura, Michiaki Tatsubori
May 2005 **Proceedings of the 14th international conference on World Wide Web WWW '05**
Publisher: ACM Press

Full text available: 📄 pdf(274.39 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

XML (Extensible Markup Language) processing can incur significant runtime overhead in XML-based infrastructural middleware such as Web service application servers. This paper proposes a novel mechanism for efficiently processing similar XML documents. Given a new XML document as a byte sequence, the XML parser proposed in this paper normally avoids syntactic analysis but simply matches the document with previously processed ones, reusing those results. Our parser is adaptive since it partially p ...

Keywords: SAX, XML parsers, automata

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6 <u>Concrete syntax for objects: domain-specific language embedding and assimilation without restrictions</u>

Martin Bravenboer, Eelco Visser
October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10
Publisher: ACM Press

Full text available: 📄 pdf(379.91 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Application programmer's interfaces give access to domain knowledge encapsulated in class libraries without providing the appropriate notation for expressing domain composition. Since object-oriented languages are designed for extensibility and reuse, the language constructs are often sufficient for expressing domain abstractions at the semantic level. However, they do not provide the right abstractions at the syntactic level. In this paper we describe MetaBorg, a method for providing <i> ...

Keywords: MetaBorg, SDF, concrete object syntax, domain-specific languages, embedded languages, extensible syntax, meta programming, rewriting, stratego, syntax extension

7 Q focus: semi-structured data: XML <and semi-structured data>

C. M. Sperberg-McQueen
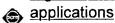October 2005 **Queue**, Volume 3 Issue 8
Publisher: ACM Press
Full text available: pdf(222.30 KB)   Additional Information: full citation, abstract, references, index terms
html(32.69 KB)

XML, as defined by the World Wide Web Consortium in 1998, is a method of marking up a document or character stream to identify structural or other units within the data. XML makes several contributions to solving the problem of semi-structured data, the term database theorists use to denote data that exhibits any of the following characteristics:•Numerous repeating fields and structures in a naive hierarchical representation of the data, which lead to large numbers of tables in a sec ...

8 Algorithms and programming models for efficient representation of XML for Internet applications

Neel Sundaresan, Reshad Moussa
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
Publisher: ACM Press
Full text available: pdf(352.97 KB)   Additional Information: full citation, references, citings, index terms

Keywords: DOM, SAX, WBXML, XML, compression

9 Web and e-business application: A framework for automatic generation of web-based data entry applications based on XML

Volker Turau
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**
Publisher: ACM Press
Full text available: pdf(635.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a framework for web-based data entry applications. It introduces a method for the conceptional and the navigational design based on a textual specification in the form of an XML-application. This forms the input to a code generation environment allowing for real automated prototyping. The environment produces fully functional skeletons for the web pages. Together with the framework classes they can be utilized for testing and for requirements review. They also form the starti ...

Keywords: automated prototyping, frameworks, web-based data entry

10 Software and document engineering: Supporting document and data views of source code

Michael L. Collard, Jonathan I. Maletic, Andrian Marcus

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering DocEng '02**

Publisher: ACM Press

Full text available: 🔂 pdf(162.30 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The paper describes the use of an XML format to store and represent program source code. A new XML application, srcML (SouRCe Markup Language), is presented. srcML presumes a document view of source code where information about the syntactic structure is layered over the original source code document. The resultant multi-layered document has a base layer of all the original text (and formatting). The second layer is the syntactic information, derived from the grammar of the programming language, ...

Keywords: XML, abstract syntax tree, markup language, program analysis, source code

11 <u>Utilizing traceability links: An XML based approach to support the evolution of model-to-model traceability links</u>

Jonathan I. Maletic, Michael L. Collard, Bonita Simoes

November 2005 **Proceedings of the 3rd international workshop on Traceability in emerging forms of software engineering TEFSE '05**

Publisher: ACM Press

Full text available: 🔂 pdf(135.84 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The paper summarizes the authors' current research on supporting model-to-model traceability. The authors present a graph theoretic definition of what they mean by models and traceability links. This definition is realized by the use of XML technologies to represent the models and traceability links. Practical means to represent different types of system models (e.g., source code and design) using XML are discussed. Traceability links are also implemented using XML technologies in an efficient a ...

Keywords: maintenance, software evolution, traceability

12 <u>XML processing: A comprehensive solution to the XML-to-relational mapping problem</u>

Sihem Amer-Yahia, Fang Du, Juliana Freire

November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management WIDM '04**

Publisher: ACM Press

Full text available: 🔂 pdf(114.33 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The use of relational database management systems (RDBMSs) to store and query XML data has attracted considerable interest with a view to leveraging their powerful and reliable data management services. Due to the mismatch between the relational and XML data models, it is necessary to first shred and load the XML data into relational tables, and then btranslate XML queries over the original data into equivalent SQL queries over the mapped tables. Although there is a rich literature on XML-rel ...

Keywords: XML shredding, XML storage, mapping techniques, relational databases

13 <u>Web-enabled simulation technologies: web-enabled applications: Flexible integration of XML into modeling and simulation systems</u>

Mathias Röhl, Adelinde M. Uhrmacher

December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**

Publisher: Winter Simulation Conference

Full text available: 🔂 pdf(421.56 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

As the effort towards standardization of formalism representations increases so does the

need for verifying whether models do or do not follow a standard. Data binding allows to systematically exploit XML and its associated technologies for modeling and simulation purposes. Based on the schema definition of a formalism, a binding compiler generates model classes that support the user in constructing models according to the formalism. Most constraints can be checked automatically, few require sep ...

14 Using Javadoc and XML to produce API reference documentation

Donald M. Leslie
October 2002 **Proceedings of the 20th annual international conference on Computer documentation SIGDOC '02**
Publisher: ACM Press

Full text available: pdf(623.29 KB)   Additional Information: full citation, abstract, references, citings, index terms

The creation of API reference documentation and its integration into larger documentation sets present a number of challenges. This paper explores a strategy for using Javadoc, the primary mechanism for generating Java API documentation, in conjunction with an XML infrastructure, to improve the quality of API reference material and its integration into product documentation sets.

Keywords: API documentation, HTML, Javadoc, XML, XSL stylesheets, XSLT, doclets, document transformation

15 Models and tools for generating digital libraries: 5SL: a language for declarative specification and generation of digital libraries

Marcos André, Gonçalves, Edward A. Fox
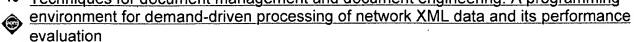July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**
Publisher: ACM Press

Full text available: pdf(292.78 KB)   Additional Information: full citation, abstract, references, citings, index terms

Digital libraries (DLs) are among the most complex kinds of information systems, due in part to their intrinsic multi disciplinary nature. Nowadays DLs are built within monolithic, tightly integrated, and generally inflexible systems -- or by assembling disparate components together in an ad-hoc way, with resulting problems in interoperability and adaptability. More importantly, conceptual modeling, requirements analysis, and software engineering approaches are rarely supported, making it extrem ...

Keywords: 5S, 5SL, design tools, generators, languages, models

16 Techniques for document management and document engineering: A programming environment for demand-driven processing of network XML data and its performance evaluation

Masakazu Yamanaka, Kenji Niimura, Tomio Kamada
November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**
Publisher: ACM Press

Full text available: pdf(417.15 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes a programming environment for Java that processes network XML data in a demand-driven manner to return quick initial responses. Our system provides a data binding tool and a tree operation package, and the programmer can easily handle network XML data as tree-based operations using these facilities. For efficiency, demand-driven data binding allows the application to start the processing of a network XML document before the arrival of the whole data, and our tree o ...

Keywords: XML, data binding, demand-driven, multi-threading

17 Modeling methodology b: Open source initiatives for simulation software: next generation simulation environments founded on open source software and XML-based standard interfaces

Thomas Wiedemann
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers WSC '02**
Publisher: Winter Simulation Conference
Full text available: ⬛ pdf(181.61 KB)   Additional Information: full citation, abstract, references

> During the Winter Simulation Conference 2001 the OpenSML-project was presented and started. The OpenSML-project is based on the Simulation Modeling Language (SML^{TM}) and is an open source, web-based, multi-language simulation development project guided by a consortium of industrial, academic and government simulation consultants, practitioners and developers. For the simulation community, the open source movement represents an opportunity to improve the quality of common cor ...

18 An access control method based on the prefix labeling scheme for XML repositories

Shohei Yokoyama, Manabu Ohta, Kaoru Katayama, Hiroshi Ishikawa
January 2005 **Proceedings of the 16th Australasian database conference - Volume 39 ADC '05**
Publisher: Australian Computer Society, Inc.
Full text available: ⬛ pdf(462.06 KB)   Additional Information: full citation, abstract, references, index terms

> This paper describes an access control method of the XML repository system, SAXOPHONE, which was implemented at Tokyo Metropolitan University. The main feature of our research is a novel account identifier that is based on the prefix-labeling scheme to realize a hierarchical authorization. SAXOPHONE uses relational databases for XML document storage. Using it, any valid or well-formed XML document is decomposed into events of the SAX parser and is then stored into relational tables using a fixed ...
>
> **Keywords**: SAX parser, XML database, XML repository, access control, relational database

19 Book reviews: Review of "XML and Java: developing web applications, 2nd edition by Hiroshi Maruyama, et. al." Addison-Wesley 2002.
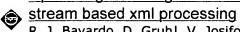
Brian A. Lawler
March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2
Publisher: ACM Press
Full text available: ⬛ pdf(134.41 KB)   Additional Information: full citation

20 Optimizing encoding: An evaluation of binary xml encoding optimizations for fast stream based xml processing

R. J. Bayardo, D. Gruhl, V. Josifovski, J. Myllymaki
May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**
Publisher: ACM Press
Full text available: ⬛ pdf(255.72 KB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper provides an objective evaluation of the performance impacts of binary XML encodings, using a fast stream-based XQuery processor as our representative application. Instead of proposing one binary format and comparing it against standard XML parsers, we investigate the individual effects of several binary encoding techniques that are shared by many proposals. Our goal is to provide a deeper understanding of the performance impacts of binary XML encodings in order to clarify the ongoing ...

Keywords: XML binary formats, XPath processing

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